



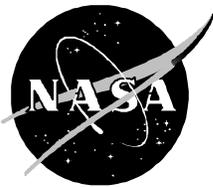
**AUTOMATED INFORMATION MANAGEMENT
VERSION DESCRIPTION DOCUMENT
FOR THE NASA TRAINING AND
DEVELOPMENT SYSTEM**

Release 2.6.0

AIM-NTDS-VDD-13

PrISMS Contract

October 1996



National Aeronautics and
Space Administration

George C. Marshall Space Flight Center
Huntsville, AL 35812

**VERSION DESCRIPTION DOCUMENT
FOR THE
NASA TRAINING AND DEVELOPMENT SYSTEM
RELEASE 2.6.0**

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, ALABAMA

October 1996

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FOR THE
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Approved by

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GEORGE C. MARSHALL SPACE FLIGHT CENTER
HUNTSVILLE, AL

October 1996

HISTORY PAGE

Document Number: CSC-530-0001 **Document Title:** Version Description Document for the NASA Training and Development System (DRD 38K 05)

Change Number	Date	Description	Pages Affected
—	12/92	Original baseline of System/Software Version Description Document (CSC-A000228)	All
Release 1.2.0	8/93	First release document (Republished as ISC-A000228)	All
Release 1.2.1	9/93	Changes to baseline	All
Release 1.3.0	12/93	Changes to baseline (Republished as ISC-52100-530)	All
Release 1.4.0	1/94	Changes to baseline	All
Release 1.5.0	4/94	Changes to baseline	All
Release 1.6.0	8/94	Changes to baseline	All
Release 2.0.0	12/94	Changes to baseline	All
Release 2.1.0	2/95	Changes to baseline	All
Release 2.2.0	4/95	Changes to baseline	All
Release 2.3.0	8/95	Changes to baseline	All
Release 2.3.1	9/95	Changes to baseline	All
Release 2.3.2	11/95	Changes to baseline	All
Release 2.4.0	1/96	Changes to baseline	All
Release 2.5.0	5/96	Changes to baseline	All
Release 2.6.0	10/96	Changes to baseline	All

TABLE OF CONTENTS

Section	Page
1.0 INTRODUCTION.....	1-1
1.1 Identification of the Release.....	1-1
1.2 Purpose of the Release.....	1-1
1.3 Scope of the Release.....	1-1
1.4 Contact Points.....	1-1
2.0 FUNCTIONAL INFORMATION.....	2-1
2.1 Functional Changes.....	2-1
2.2 Functional Interfaces.....	2-1
2.3 Critical Issues.....	2-1
2.4 Affected Documents.....	2-1
2.5 Application System Administration.....	2-1
3.0 TECHNICAL INFORMATION.....	3-1
3.1 Technical System Interfaces.....	3-1
3.2 Data Dictionary Changes.....	3-1
3.3 Software Object Changes.....	3-1
3.4 Data-Base Administration.....	3-1
3.4.1 Release Data Set Names.....	3-1
3.4.2 Inventory of Objects.....	3-1
3.4.3 Storage Considerations.....	3-1
3.4.4 Installation Procedures.....	3-2
3.5 Operational Preparation.....	3-2
4.0 KNOWN AND OPEN PROBLEMS.....	4-1

APPENDIXES

Appendix		Page
A	ABBREVIATIONS AND ACRONYMS.....	A-1
B	GLOSSARY.....	B-1
C	FUNCTIONALCHANGE VALIDATION PROCEDURES.....	C-1
D	INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NTDS RELEASE	D-1
E	CCR LIST FOR NTDS RELEASE.....	E-1
F	FILE SPECIFICATIONS.....	F-1

1.0 INTRODUCTION

The Version Description Document (VDD) identifies the exact version of the National Aeronautics and Space Administration (NASA) Training and Development System (NTDS) released for installation/implementation.

1.1 Identification of the Release

This software release is identified as NTDS, Release 2.6 and has an effective release date of October 18, 1996. Support of the previous release expires 30 days after the scheduled implementation date of November 29, 1996.

1.2 Purpose of the Release

The purpose of this release is to incorporate system modifications per the Change Control Requests (CCR's) listed in appendix E.

1.3 Scope

This VDD provides the functional and technical user of NTDS with information regarding the contents, status, and structure of Release 2.6, including the following:

- Changes implemented since release 2.5.0.
- Validation procedures to ensure the reliability of release changes.
- References to other documentation affected by this release.
- Detailed software installation instructions.

A waiver for element naming standardization for new NTDS files has been granted by NASA Headquarters. No other waivers are associated with this release.

1.4 Contact Points

Sustaining Engineering for NTDS is provided through the NACC Technical Services Center located at Marshall Space Flight Center (MSFC). Questions regarding the function and/or the technical aspects as well as the installation of this release should be directed:

The NACC Technical Support Center (Use following Key Words: SESAAS & NTDS)

Telephone: (205) 544-6673
CCMail: nathalyne.cucarola@msfc.nasa.gov
FAX: (205) 544-1836

2.0 FUNCTIONAL INFORMATION

This section includes details regarding functional changes, functional interfaces, critical issues, affected documents, and application system administration.

2.1 Functional Changes

Please refer to Appendix C, Functional Change Validation Procedures, for a description of all functional changes related to this release. Appendix D, Installation Procedures, describes all Software PREDICT and SYSERR changes related to this release.

2.2 Functional Interfaces

This release has no functional impact on interfaces with any Automated Information Management (AIM) application.

2.3 Critical Issues

This release has no critical issues.

2.4 Affected Documents

The following documents are affected by this release:

- NTDS SRS
- NTDS UOG

Above documents will be distributed under separate cover dated October 1996. They are effective only upon installation and operational use of this release.

2.5 Application System Administration

Application system administration changes associated with this release are discussed in Appendix D, Installation Procedures.

File modifications are required with this release for the NTDS-PPMI file. This is documented in Appendix D, Installation Procedures.

3.0 TECHNICAL INFORMATION

This section includes details regarding technical system interfaces, data dictionary changes, software object changes, and database administration activities.

3.1 Technical System Interfaces

This release has no technical impact on any other AIM application.

Refer to Appendix D for the technical details of the installation.

3.2 Data Dictionary Changes

A partial NTDS data dictionary is included in this release in PREDICT format. The information may be retrieved from the NTDS system file using standard tools provided by PREDICT. Two batch programs are provided in the BJS sub system to provide the user designed data dictionary reports.

Appendix D has a more complete description of the PREDICT changes for this release.

3.3 Software Object Changes

Modules affected by this release are included in appendix D, Section 2.2.

3.4 Data-Base Administration

This section describes the database administration activities for NTDS.

3.4.1 Release DataSet Names

The data sets for Release 2.6 are located on the AIM Central Distribution Facility as AIM data sets. The names of these datasets are included in the Introduction of appendix D.

3.4.2 Inventory of Objects

Refer to appendix D.

3.4.3 Storage Considerations

Appendix F contains recommended file specifications and space allocation information for the NTDS files. These are only recommended and may be changed by each site.

3.4.4 Installation Procedures

Access the AIM dataset AIMS.NTDS.PROD.REL260.REL1096.DOC. This dataset is located on the AIM Central Bulletin Board, for the NTDS release README file, with its detailed software installation procedures. Appendix D of this document has the same installation instructions.

3.5 Operational Preparation

The AIM dataset AIMS.NTDS.PROD.REL260.REL1096.DOC with its NTDS release README file and Appendix D of this document have detailed instructions on operational preparation for installation of this release.

4.0 KNOWN AND OPEN PROBLEMS

There are no known and open problems for this release.

APPENDIX A
ABBREVIATIONS AND ACRONYMS

ABBREVIATIONS AND ACRONYMS

AIM	Automated Information Management
BJS	Batch Job Scheduler
CCR	Change Control Request
CR	Change Request
CRS	Course
CTDS	Consolidated Training and Development System
DDM	Data Definition Module
DP	Development Program
DR	Discrepancy Report
FY	Fiscal Year
GPA	Grade Point Average
ID	Identification
IDP	Individual Development Plan
ISN	Internal Sequence Number
MATH	Mass Add of Training History
NASA	National Aeronautics and Space Administration
NDM	Network Data Mover
NOAC	Nature of Action Code
NPPS	NASA Personnel/Payroll System
NTDS	NASA Training and Development System
OPM	Office of Personnel Management
OSA	Obligated Service Agreement

PF	Program Function
RAA	Reminder and Automatic Actions
SDDS	System/Software Detailed Design Specification
SESS	Course Session
SIDP	Standard Individual Development Plan
SRS	System/Software Requirements Specification
SSN	Social Security Number
SYSERR	Natural System Error Utility
TH	Training History
TR	Training Request
UOG	User and Operations Guide
VDD	Version Description Document

APPENDIX B
GLOSSARY

GLOSSARY

Change Control Request

A NASA standard form (NF-1620) on which requirement changes and discrepancies are reported (also known as a CCR).

Data Administration

Responsibility for maintaining the data and application support architecture.

Data-Base Administration

Responsibility for maintaining the physical database environment.

Development Installation

A NASA site responsible for the development and implementation of an AIM application.

Implementation

The process by which a NASA site installs an AIM software release and places it into operational use.

Operational Preparation

Preparation by a NASA site for installation and use of an AIM application release.

System Administration

Responsibility for administrative functions such as application security and table data maintenance associated with an AIM application.

Waiver

A written authorization from the AIM program director for a Development Installation to deviate from a specific AIM standard or guideline in the implementation of an AIM software application; waivers may be permanent or temporary.

APPENDIX C
FUNCTIONAL CHANGE VALIDATION
PROCEDURES

FUNCTIONAL CHANGE VALIDATION PROCEDURES

Index of validation procedures provided for changes in this release.

Section	CCR	Title
1.0	94001792	MULTIPLE COURSE SELECTION CAPABILITY FROM IDP
2.0	94002741	IDP - ADD GOALS AND OBJECTIVES
3.0	96000309	CURRENT GPA DISPLAYS AS 0.0
4.0	96000310	MODIFY IDP COURSE CHANGEDITS
5.0	96000311	MODIFY SOFTWARE TO CONFORM TO SRS
6.0	96000312	MODIFY SOFTWARE TO CONFORM TO SRS
7.0	96000313	OFF-SITE VERIFICATION NOTICES
8.0	96000317	CONTRACTOR ORGANIZATION DATA NOT POPULATED IN TRAINING HISTORY

Details for the validation procedures are listed below:

1.0 CCR Number 94001792 Multiple Course Selection Capability

Existing capability allows user to choose only one course for review/processing at a time then returns the user to the IDP screen. It is desired to add the capability to select/review one or more courses from this screen.

Description of Enhancement

The IDP Course List Select screen for the Browse, Change, Add, and Delete options have been changed to allow the user to select one or more courses for processing.

Functional Impact

- Programs and screens were modified to permit user to select multiple courses/sessions for processing.

Validation Procedures

- **Add Courses/Sessions**

NOTE: Steps 1 or 2 may be used to access an IDP to allow entry of the course/sessions information.

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.

3. Select option A to access the IDP Add (AIDP) process. Enter the required information to add an IDP. Proceed to step 5. Or,
4. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
5. Enter an 'A' to add courses/sessions. Press <ENTER>.
6. Verify that a list of the existing courses is displayed (IDP COURSE LIST SELECT). For an add process there may or may not be existing courses.
7. Enter an 'X' or ' ' in any SEL NUM field and press <ENTER>.
8. Verify that the IDP COURSE ADD screen is displayed. Enter new course and session information (one or more courses may be entered) press <ENTER>.
9. Verify that the course name, entry start and end dates and other displayed information is correct. Press <ENTER>.
10. Verify that the course information has been changed or added message is displayed. Press PF2 to complete the change process.

- **Browse Courses/Sessions**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option B to access the IDP Browse (BIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'B' to browse the courses/sessions. Press <ENTER>.
5. Verify that a selection list (IDP COURSE LIST SELECT) of the courses is displayed. Enter an 'X' in the SEL NUM field by each course that is to be displayed. Press <ENTER>.
6. Verify that the first selected course is displayed . Press PF2 to finish the browse process. After all selected records have been displayed you will return to the IDP COURSE LIST SELECT screen.
7. Press PF3 to return to the IDP CHANGE screen; press PF2 to complete the change process.

- **Change Courses/Sessions**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'C' to change the courses/sessions. Press <ENTER>.

5. Verify that a selection list (IDP COURSE LIST SELECT) of the courses is displayed.
6. Enter an 'X' in the SEL NUM field by each course that is displayed that you wish to change. Press <ENTER>.
7. Verify that the first selected course is displayed for change (IDP COURSE CHANGE). Enter the desired changes. Press PF2 to finish the change process. The next selected course is displayed for changes. Enter the desired changes and press PF2 to finish the change process. This step is repeated until all selected records are displayed for change.
8. Press PF3 to return to the IDP CHANGE screen; press PF2 to complete the change process.

- **Delete Courses/Sessions**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'D' to delete courses/sessions. Press <ENTER>.
5. Verify that a list of the existing courses is displayed (IDP COURSE LIST SELECT).
6. Enter an 'X' in the SEL NUM field for courses you wish to delete. Press <ENTER>.
7. Verify that the IDP COURSE DELETE screen is displayed. Press PF2 to confirm the deletion. You will return to the IDP COURSE LIST SELECT screen.
8. Verify that the message 'Course information has been deleted' is displayed. Press <ENTER> to continue deleting the remaining courses that were selected. Repeat step 5 until all selected courses are deleted.
9. Press PF3 to return to the IDP CHANGE screen.
10. Press PF2 to complete the change process.

- **Affected Modules**

Module	Module Name	Type
NTDAD3C2	IDP Course Maintenance Parm	LDA
NTDMD3C2	IDP Course List Select	MAP
NTDPD3A0	IDP Add Driver	PGM
NTDPD3B0	IDP Browse Driver	PGM
NTDPD3C0	IDP Change Driver	PGM
NTDPD3D0	IDP Delete Driver	PGM
NTDND3A1	Add Course Session Information	PGM
NTDND3A2	IDP Add Work/Other	PGM
NTDND301	IDP Course Maintenance	PGM
NTDND302	IDP Work Other Maintenance	PGM
NTDND303	IDP Course Table Maintenance	SUB
NTDND304	IDP Work/Other Table Maintenance	SUB

2.0 CCR Number 94002741 Add Goals and Objectives to IDP

Add capability to maintain goals and objectives in the IDP.

Description of Enhancement

The NTDS-IDP file was changed to include goals and objectives fields. The IDP add, browse, change, and delete processes and their corresponding screens were modified to provide users with the capability to maintain these fields. A new program was written to maintain the goals and objectives. The IDP Participant report program was modified to include goals and objectives, comments, and evaluation data in the printing of the online and batch IDP Participant reports.

Functional Impact

- IDP processes will provide the capability to add, browse, change, and delete goals and objectives. The online and batch IDP Participant reports will include goals and objectives, comments, and evaluation data.

Validation Procedures

- **Add Goals and Objectives**
 1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
 2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
 3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
 4. Enter an 'A' to add the goals and objectives. Press <ENTER>.

5. Verify that the ADD GOALS/OBJECTIVES screen is displayed.
6. Enter goals and/or objectives. Press PF2 to complete the goals/objectives add process.
7. You will return to the IDP CHANGE screen. Verify that the message 'Goals/Objectives have been added' is displayed.
8. Press PF2 to complete the IDP Change process.

NOTE: Goals and objectives also may be added during the IDP Add (AIDP) process.

- **Browse Goals and Objectives**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option B to access the IDP Browse (BIDP) process, enter the SSN and the DP/ DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'B' to browse existing goals and objectives. Press <ENTER>.
5. Verify that the BROWSE GOALS/OBJECTIVES screen is displayed.
6. Press PF2 to complete the goals/objectives browse process.
7. You will return to the IDP BROWSE screen.
8. Press PF2 to complete the IDP Browse process.

NOTE: Goals and Objectives also may be browsed during the IDP Add (AIDP), IDP Change (CIDP), and IDP Delete (DIDP) processes

- **Change Goals and Objectives**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/ DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'C' to change the goals and objectives. Press <ENTER>.
5. Verify that the CHANGE GOALS/OBJECTIVES screen is displayed.
6. Enter the changes to the goals and/or objectives. Press PF2 to complete the goals/objectives change process.
7. You will return to the IDP CHANGE screen. Verify that the message 'Goals/Objectives have been updated' is displayed.
8. Press PF2 to complete the IDP Change process.

- **Delete Goals and Objectives**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option D to access the IDP Change (CIDP) process, enter the SSN and the DP/ DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'D' to delete the goals and objectives. Press <ENTER>.
5. Verify that the 'DELETE GOALS/OBJECTIVES' screen is displayed.
6. Press PF2 to complete the goals/objectives deletion process. Verify that a pop-up window is displayed for confirmation of the deletion. Enter a 'Y' to confirm the deletion. Press <ENTER>.
7. You will return to the IDP CHANGE screen. Verify that the message 'Goals/Objectives have been deleted' is displayed.
8. Press PF2 to complete the IDP Change process. Verify that the message 'Record has been updated' is displayed.

NOTE: Goals and Objectives also may be deleted during the IDP Change (CIDP) process.

- **IDP Participant Report**

1. Using the IDP Participant process (RPTPIDP), enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Enter a '1' for RELEASE REPORT to obtain the online IDP Participant report, or enter a '2' to obtain the batch IDP Participant report.
2. Press PF2 to execute the online or batch IDP Participant report.
3. The online IDP Participant report will execute immediately. Verify that the IDP participant's existing goals and objectives, comments, and evaluation data are included in the report.
4. The batch IDP Participant report will involve additional steps. A pop-up window will be displayed. Enter the required Natural Password, submission preference, and printer destination. Press <ENTER>. An additional pop-up window will identify the job number and either submitted or scheduled status of the job. Press <ENTER>.
5. After the batch job has executed, view the job output in the installation's output queue. Verify that the IDP participant's existing goals and objectives, comments, and evaluation data are included in the report.

- **Affected Modules**

Module	Module Name	Type
NTDBD4R2	Participant IDP Report	PGM
NTDBI210	KSC Training Request Interface	PGM
NTDLD3C1	IDP Screen Information	LDA
NTDLD3V1	IDP View	LDA
NTDLD3VZ	IDP View	LDA
NTDLD300	IDP Screen Parameter	LDA
NTDMD3A1	IDP Add	MAP
NTDMD3C1	IDP Change	MAP
NTDMD3E1	IDP Goals/Objectives	MAP
NTDND3AA	IDP Add/Change Record	PGM
NTDND3A1	IDP Add Course Information	PGM
NTDND3E1	IDP Goals/Objectives Maintenance	SUB
NTDPD3A0	IDP Add Driver	PGM
NTDPD3A1	IDP Add	PGM
NTDPD3B0	IDP Browse Driver	PGM
NTDPD3B1	IDP Browse	PGM
NTDPD3C0	IDP Change Driver	PGM
NTDPD3C1	IDP Change	PGM
NTDPD3D0	IDP Delete Driver	PGM
NTDPD3D1	IDP Delete	PGM
NTDS-IDP	IDP File	FILE

3.0 CCR Number 96000309 IDP Grade Point Average (GPA) Display

In the IDP, the current GPA field should show the computed average GPA for completed courses with academic credit.

Description of Enhancement

The IDP browse, change, and delete processes were modified to compute the average GPA for completed courses with academic credit.

Functional Impact

- IDP browse, change, and delete processes will display the computed average GPA for completed courses with academic credit.

Validation Procedures

- **Compute GPA**
 1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.

2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/ DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter an 'A' to add a course/session. Press <ENTER>.
5. Verify that the IDP COURSE LIST SELECT screen is displayed. Press <ENTER>.
6. Verify that the IDP COURSE ADD screen is displayed. Enter the fiscal year, course code, and session number for an existing course that has been designated for academic credit and has credit hours assigned to it. Press <ENTER>.
7. Enter a 'Y' to include the course in the GPA calculation (USE CAL GPA). Press <ENTER>.
8. Press PF2 to complete the course/session add process.
9. You will return to the IDP CHANGE screen. Verify that the message 'Course information has been added' is displayed.
10. Press PF2 to complete the IDP Change process.
11. Using the Training History Add (ATH) process, enter the SSN for the IDP participant. Press <ENTER>.
12. On Page 1 of the Training History Add Training Instance screen, enter the course and session. Press <ENTER>.
13. On Page 2 of the Training History Add Training Instance screen, enter a grade for the course and session. Press <ENTER>.
14. Press PF2 to add the Training History record.
15. You will return to the TRAINING HISTORY ADD screen. Verify that the message 'Record has been added' is displayed.
16. Using the IDP Browse (BIDP) process, enter the SSN and the DP/ DP Cat/DP Subcat code combination for the IDP participant. Press <ENTER>.
17. Verify that the Current GPA field reflects the grade for the course and session that were added for the IDP participant.
18. Using the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for the IDP participant. Press <ENTER>.
19. Verify that the Current GPA field reflects the grade for the course and session that were added for the IDP participant.
20. Using the IDP Delete (DIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for the IDP participant. Press <ENTER>.
21. Verify that the Current GPA field reflects the grade for the course and session that were added for the IDP participant.

- **Affected Modules**

Module	Module Name	Type
NTDPD3B1	IDP Browse	PGM
NTDPD3C1	IDP Change	PGM
NTDPD3D1	IDP Delete	PGM
NTDND305	Calculate GPA	SUB

4.0 CCR Number 96000310 Modify IDP Course Change Edits

When adding IDP Course information, an informative message should be displayed when you try to enter a course that is already a part of another IDP belonging to the same participant. This is currently not working. When you select the option to add additional courses, the courses associated with the IDP should be displayed, allowing you to add new course information while viewing existing course information. PF6 RTRV does not work.

Description of Enhancement

The IDP Course List Select screen for the Browse, Change, Add, and Delete options has been changed to allow the user to select one or more courses for processing. The PF6 RTRV is no longer displayed.

Functional Impact

- Programs and screens were modified to permit user to select multiple courses/sessions for processing.

Validation Procedures

- **Add Courses/Sessions**
 1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
 2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
 3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
 4. Enter an 'A' to add courses/sessions. Press <ENTER>.
 5. Verify that a list of the existing courses is displayed (IDP COURSE LIST SELECT). For the add process there may or may not be existing courses.
 6. Enter an 'X' or ' ' in any SEL NUM field and press <ENTER>.
 7. Verify that the IDP COURSE ADD screen is displayed. Enter new course and session information (one or more courses may be entered before pressing the PF2 key). Press PF2 to complete the add process.
 8. Press <ENTER> to return to the IDP CHANGE screen; press PF2 to complete the change process.
 9. Repeat steps 3 and 4. Enter a course that is already associated with the IDP.
 10. Verify that message 4407 'Duplicate Course FY/Code/Sessions are highlighted' is displayed. Press PF3 to return to the IDP Change Screen.

- **Change Courses/Sessions**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'C' to change the courses/sessions. Press <ENTER>.
5. Verify that a selection list (IDP COURSE LIST SELECT) of the courses is displayed.
6. Enter an 'X' in the SEL NUM field by each course that is displayed. Press <ENTER>.
7. Verify that the first selected course is displayed for change (IDP COURSE CHANGE). Enter the desired changes. Press PF2 to finish the change process. If more than one course was selected, the next selection will be displayed for you to enter changes, enter desired changes and press PF2 to process. Repeat this step until all selected courses have been displayed for change.
8. Press PF3 to return to the IDP CHANGE screen; press PF2 to complete the change process.

- **Affected Modules**

Module	Module Name	Type
NTDND301	IDP Course Maintenance	PGM
NTDND3A1	IDP Add Course Information	PGM
NTDPD3A0	IDP Add Driver	PGM
NTDPD3B0	IDP Browse Driver	PGM
NTDPD3C0	IDP Change Driver	PGM
NTDPD3D0	IDP Delete Driver	PGM
NTDPD3C1	IDP Change	PGM

5.0 CCR Number 96000311 Modify Software to Conform to SRS

IDP course change no longer satisfies the business process. You should ~~not~~ be able to change course session dates. Permit user to change course session number instead of course session dates.

Description of Enhancement

The IDP COURSE CHANGE screen has been modified to prevent user entry of the course code and course start and end dates. To change a course code

associated with an IDP you should use the Delete (DIPD) and Add IDP (AIDP) processes. Users may change the session associated with an existing course code.

Functional Impact

Programs and screens were modified to permit users to enter a new session for an existing course.

Validation Procedures

- **Change Courses/Sessions**

1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
4. Enter a 'C' to change the courses/sessions. Press <ENTER>.
5. Verify that a selection list (IDP COURSE LIST SELECT) of the courses is displayed.
6. Enter an 'X' in the SEL NUM field by the course you wish to change. Press <ENTER>.
7. Verify that the selected course is displayed for change (IDP COURSE CHANGE).
8. Enter the desired session number. Press <ENTER>. If the entered session does not exist for the course you will receive message 4415 'Invalid Session Number for this Course Code'. Verify that the start and end dates for the invalid course code are blank. Press PF3 to return to the previous screen.
9. Select another course for change. Press <ENTER>.
10. Verify that the selected course is displayed for change (IDP COURSE CHANGE).
11. Enter a valid session number for the course. Verify that the start and end dates for the session are displayed. Press PF2 to process the change. You will return to the IDP COURSE LIST SELECT screen.
12. Press PF3 to return to the IDP CHANGE screen.
13. Press PF2 to complete the change process.

- **Affected Modules**

Module	Module Name	Type
NTDND3C1	IDP Course Information Change	PGM

6.0 CCR Number 96000312 Modify Software to Conform to SRS

Edit logic not working for noncompleted coursesReference Notes/Helpful Hints in the SRS. PF6 RTRV does not work.

Description of Enhancement

The SRS has been modified restating Note 2. Fiscal year and course code are not modifiable fields. Note 3 has been removed from the SRS. The PF6 RTRV has been removed.

Functional Impact

Programs and screens were modified to permit users to enter a new session for an existing course.

Validation Procedures

- **Change Courses/Sessions**
 1. From the NTDS Main Menu select option E, Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
 2. From the Development Programs menu, select option B, IDP. Press <ENTER>. Verify that the IDP menu is displayed.
 3. Select option C to access the IDP Change (CIDP) process, enter the SSN and the DP/DP Cat/DP Subcat code combination for an existing IDP participant. Press <ENTER>.
 4. Enter a 'C' to change the courses/sessions. Press <ENTER>.
 5. Verify that a selection list (IDP COURSE LIST SELECT) of the courses is displayed.
 6. Enter an 'X' in the SEL NUM field by the course you wish to change. Press <ENTER>.
 7. Verify that the selected course is displayed for change (IDP COURSE CHANGE).
 8. Enter the desired session number. Press <ENTER>. If the entered session does not exist for the course you will receive message 4415 'Invalid Session Number for this Course Code'. Verify that the start and end dates for the invalid course code are blank. Press PF3 to return to the previous screen.
 9. Select another course for change. Press <ENTER>.
 10. Verify that the selected course is displayed for change (IDP COURSE CHANGE).

11. Enter a valid session number for the course. Verify that the start and end dates for the session are displayed. Press PF2 to process the change. You will return to the IDP COURSE LIST SELECT screen.
12. Press PF3 to return to the IDP CHANGE screen.
13. Press PF2 to complete the change process.

- **Affected Modules**

Module	Module Name	Type
NTDND3C1	IDP Course Information Change	PGM

7.0 CCR Number 96000313 Off-Site Verification Notices

When executing offsite verification notices, users get a Natural 954 error message and no output.

Description of Enhancement

Error has been corrected in the Offsite Attendance Notice process.

Functional Impact

Programs were modified to correct the error.

Validation Procedures

- **Offsite Attendance Notice**
 1. From the NTDS Main Menu select option C, Registration. Press <ENTER>. Verify that the Registration menu is displayed.
 2. Select option A to access the Training Request from the Registration menu. Press <ENTER>. Verify that the Training Request menu is displayed.
 3. From the Training Request Menu, select option I to access the OFF-SITE TR ADD (AOSTR) process to add an offsite training request. Enter the required data fields and press PF2. Verify that the message “Record has been added” is displayed.
 4. From the Enrollment Notices Menu, select the OFFSITE ATTENDANCE NOTICE (RPTENOFFSITE) process. Enter the required data fields and press PF2. Enter the required Natural Password, submission preference, and printer destination. Press <ENTER>. A pop-up window will identify the job number and either submitted or scheduled status of the job. Press <ENTER>.
 5. Verify that the Offsite Attendance Notice(s) were successfully generated.

- **Affected Modules**

Module	Module Name	Type
NTDDBR6RH	Offsite Attendance Notices Report Generation	PGM
NTDPR8K1	Selection criteria for Offsite Course Completion	PGM
NTDNR6RH	Offsite Attendance Notices Report Generation	SUB

8.0 CCR Number 96000317 Contractor Organization Data Not Populated in Training History

Non-NPPS contractor organization data is not carried forward to training history when a course is closed using the Course Completion Add/Change process.

Description of Enhancement

Programs were modified in the Course Completion Add/Change process so that contractor organization data for Non-NPPS participants is carried forward to training history when a course is closed.

Functional Impact

- Non-NPPS contractor organization data will be carried forward to training history when a course is closed using the Course Completion Add/Change process.

Validation Procedures

- **Course Completion Add/Change**
 1. From the NTDS Main Menu selection option I to access the NON-NPPS Personnel process. Press <ENTER>. Verify that the NON-NPPS Personnel menu is displayed.
 2. Select option C to access the Non-NPPS Participant Change (CNN) process. Press <ENTER>. Verify that a Non-NPPS participant has values in the ORG ASSIGNED and ORGANIZATION SUPPORTED fields.
 3. From the NTDS Main Menu select option E to access the Development Programs. Press <ENTER>. Verify that the Development Programs menu is displayed.
 4. From the Development Programs menu, select option B, to access the IDP processes. Press <ENTER>. Verify that the IDP menu is displayed.
 5. Select option C to access the IDP Change (CIDP) process. Add an existing course and session to the Non-NPPS participant's IDP. Press PF2 to complete the course/session add process. Press PF2 on the IDP CHANGE screen to complete the IDP change process.

6. From the NTDS Main menu select option C to access the Registration menu. Press <ENTER>. Verify that the Registration menu is displayed.
7. From the Registration menu select option A to access the Training Request process. Press <ENTER>. Verify that the Training Request menu is displayed.
8. Select option A to access the Training Request Add (ATR) process. Press <ENTER>. Create a training request for the participant for the course and session that were added to the IDP. Press PF2 to add the record.
9. From the Registration Main menu select option B to access the Course Roster menu. Press <ENTER>. From the Course Roster menu select option A to access the Dynamic Roster Save (SAVECR) process. Press PF2 to save the course and session. Press PF3.
10. From the NTDS Main menu select option C to access the Registration menu. Press <ENTER>. From the Registration menu select option C to access the Course Completion Process menu. Select option A to access the Course Completion Add/Change (ACC) process. Enter a grade for the course and session for the participant. Enter a 'Y' to indicate that you are ready to close out the course and session. Press PF2 to continue the closeout process. Enter a 'Y' to perform an online close out.
11. From the NTDS Main menu select option D to access the Training History menu. From the Training History menu select option B to access the Training History Select (STH) process. Locate the course and session for the participant and enter a 'B' in the Selection field for the record. Press PF2.
12. Verify that the TRAINING HISTORY BROWSE TRAINING INSTANCE screen is displayed. Press <ENTER> until arriving at Page 4 of the displays. Verify that the ORG:ASSIGNED and the ORG:LOCATED fields contain the values for the Non-NPPS participant.
13. Press PF2 to finish the browse process or PF3 to return to the Training History Select Screen.

- **Affected Modules**

Module	Module Name	Type
NTDLR5VB	NTDS- PER-MASTER	LDA
NTDNR7C3	Create History	SUB
NTDNR7C6	History from IDP Personnel	SUB
NTDNR7E1	Add Personnel Data to History	SUB

APPENDIX D
INSTALLATION INSTRUCTIONS AND
CHECKLIST FOR NTDS RELEASE

INSTALLATION INSTRUCTIONS AND CHECKLIST FOR NTDS RELEASE

Introduction

Release identification:

System Name	NASA Training and Development System (NTDS)
Release Number	2.6
Release Date	October 18, 1996
Release Effective Date	Effective date for this release is October 18, 1996.

Release Implementation Date November 29, 1996

The following datasets are located on the AIM Central Distribution Facility as AIM data sets.

- AIMS.NTDS.PROD.REL260.REL1096.PRD
- AIMS.NTDS.PROD.REL260.REL1096.SRC
- AIMS.NTDS.PROD.REL260.REL1096.ERR
- AIMS.NTDS.PROD.REL260.REL1096.DOC

Person to notify in case of installation problems:

Nathalyne Cucarola	(205) 544-8424
Rick Bishop	(205) 544-5352
FAX Number	(205) 544-1836

Installation Sequence

Installation is to occur in the following sequence:

- 1.0 Backups
- 2.0 Copy Source/Object Code
- 3.0 Pre-PREDICT Data Conversion
- 4.0 PREDICT Installation
- 5.0 Catalog Source Code
- 6.0 Post-PREDICT Data Conversion/Load
- 7.0 Perform Release-Specific Installation Procedures
- 8.0 Installation Checklist for NTDS Release 2.6

1.0 BACKUPS

It is advisable to back up all NTDS files as a precautionary measure prior to installation.

2.0 COPY SOURCE/OBJECT CODE

2.1 Copy Source Code

Load the NTDS source library from dataset AIMS.NTDS.PROD.REL260.REL1096.SRC using the Natural utility NATLOAD. The source programs were unloaded using the Natural utility NATUNLD. The programs will be loaded to the application library NTDS, replacing any existing programs of the same name. The source module counts included in this release are listed below:

Natural Source Modules by type	
COPYCODE	0
GLOBALS	0
HELP	0
LDA	5
MAP	5
PDA	1
PROGRAM	18
SUB PGM	8
SUBROUTINES	0
Total:	37

2.2 List of Source Code Modifications

The following are the modules added, modified and deleted.

Added Modules

1. NTDM3E1 IDP Goals/Objectives
2. NTDN3E1 IDP Goals/Objectives Maintenance
3. NTDN303 IDP Course Table Maintenance
4. NTDN304 IDP Work/Other Table Maintenance
5. NTDN305 Calculate GPA

Changed Modules

1. NTDA3C2 IDP Course Maintenance Parameter
2. NTDB4R2 Participant IDP Report
3. NTDB1210 KSC Training Request Interface
4. NTDBR6RH Offsite Attendance Notices Report Generation
5. NTDL3C1 IDP Screen Information
6. NTDL3VZ IDP View
7. NTDL3V1 IDP View
8. NTDL300 IDP Screen Parameter
9. NTDLR5VB NTDS-PER-MASTER View
10. NTDM3A1 IDP Add Screen
11. NTDM3C1 IDP Change Screen

12. NTDMD3C2 IDP Course List Select Screen
13. NTDMD3C3 IDP Course Information Change Screen
14. NTDND3AA IDP Add/Change Record
15. NTDND3A1 Add Course Session Information
16. NTDND3A2 IDP Add Work/Other
17. NTDND3C1 IDP Course Information Change
18. NTDND301 IDP Course Maintenance
19. NTDND302 IDP Work/Other Maintenance
20. NTDNR6RH Offsite Attendance Notices Report Generation
21. NTDNR7C3 Create Training History
22. NTDNR7C6 History From IDP Personnel
23. NTDNR7E1 Add Personnel Data to History
24. NTDPD3A0 IDP Add Driver
25. NTDPD3A1 IDP Add
26. NTDPD3B0 IDP Browse Driver
27. NTDPD3B1 IDP Browse
28. NTDPD3C0 IDP Change Driver
29. NTDPD3C1 IDP Change
30. NTDPD3D0 IDP Browse Driver
31. NTDPD3D1 IDP Browse
32. NTDPR8K1 Selection Criteria for Offsite Course Completion

Deleted Modules

The following modules were provided for file conversion for release 2.5 and may be deleted.

1. INSBCRS1
2. INSBCRS3
3. INSBIDP1
4. INSBIDP3
5. INSBR250

2.3 Copy Object Modules

Not applicable with this release.

3.0 PRE-PREDICT DATA CONVERSION

Not applicable for this release.

4.0 PREDICT INSTALLATION

The NTDS-PPMI file and NTDS-IDP userview were modified. DDMs for NTDS-PPMI and NTDS-IDP will need to be regenerated and ADABAS file layout will need to be updated.

These files can be viewed in PREDICT or Appendix H of the Release 2.5 SRS.

4.1 NTDS Keywords

PREDICT keyword NTDS-2.6 is included in the PREDICT dataset.

4.2 Load NTDS PREDICT

Use SYSDICBE to load NTDS dictionary data into PREDICT using file AIMS.NTDS.PROD.REL260.REL1096.PRD.

The PREDICT object counts for NTDS are as follows.

PREDICT Objects by type	
Standard File	1
Physical Files	1
User-Views	2
Data Fields (including 828 in the Z file)	1130
Program Desc	0

4.3 Generate Data Definition Modules

Generate the DDMs for NTDS-PPMI and NTDS-IDP. Change the ADABAS file layout for NTDS-PPMI (file number 28).

NEW FIELDS					
L Field Name	F	Length	DB	S	D
1 IDP-GOAL-1-TEXT	A	62	EJ	N	
1 IDP-GOAL-2-TEXT	A	62	EK	N	
1 IDP-GOAL-3-TEXT	A	62	EL	N	
1 IDP-GOAL-4-TEXT	A	62	EM	N	
1 IDP-GOAL-5-TEXT	A	62	EN	N	
1 IDP-GOAL-6-TEXT	A	62	EO	N	
1 IDP-OBJCTV-1-TEXT	A	62	EP	N	
1 IDP-OBJCTV-2-TEXT	A	62	EQ	N	
1 IDP-OBJCTV-3-TEXT	A	62	ER	N	
1 IDP-OBJCTV-4-TEXT	A	62	ES	N	
1 IDP-OBJCTV-5-TEXT	A	62	ET	N	
1 IDP-OBJCTV-6-TEXT	A	62	EU	N	
1 IDP-OBJCTV-7-TEXT	A	62	EV	N	
1 IDP-OBJCTV-8-TEXT	A	62	EW	N	

5.0 CATALOG SOURCE CODE

Run a batch job to catalog (CATALL) all modules in the NTDS or other named library. It is not necessary to catalog the Global Data Area. The AIM Batch standard parameters should be used for the compile.

After objects are compiled, the NTDS application will run under the AIM Online standard parameters.

6.0 POST-PREDICT DATA CONVERSION/LOAD

There is no data conversion for NTDS-IDP.

7.0 PERFORM RELEASE-SPECIFIC INSTALLATION PROCEDURES

The following sections are Release-Specific Installation Procedures needed for this release.

7.1 Load NTDS Error Messages into SYSERR

NTDS error messages use the System Error Utility SYSERR. To load NTDS error messages, use the ERRLODUS utility supplied with SYSERR. Error messages will be associated with library NTDS. The dataset AIMS.NTDS.PROD.REL260.REL1096.ERR is used as input to this utility as work file 2. For additional information concerning SYSERR, refer to the Natural 2 Administrator's Manual.

This release contains 5 new error messages.

- 4093 - Goals/Objectives do not exist
- 4094 - Goals/Objectives already exist
- 4191 - Goals/Objectives have been added
- 4192 - Goals/Objectives have been updated
- 4193 - Goals/Objectives have been deleted

7.2 Update Release Number

Log on to NTDS library and execute program NTDP-REL on the Natural Command line. Enter the release number as 02.60.00 and press <ENTER>.

From the Natural command line, execute program BJSP-REL. Enter the release number as 02.60.00 and press <ENTER>.

7.3 Update NTDS Menu and Expert Commands

There are no new menu options or expert commands associated with this release.

7.4 Perform NTDS Batch Job Submitter (BJS) Maintenance

There are no new Job or Task records for BJS associated with this release.

8.0 Installation Checklist for NTDS Release 2.6

APPLICATION SETUP

NOTE: 'Ref.' refers to the corresponding section number in VDD Appendix D or \$README.

(STAG/PROD)

___/___	Perform Backups	(Ref. 1.0)
___/___	Copy Source code	(Ref. 2.1)
___/___	Load NTDS Predict	(Ref. 4.2)
___/___	Generate DDMs for NTDS files	(Ref. 4.3.1)
___/___	Change ADABAS file layouts	(Ref. 4.3.1)
___/___	Catalog Source programs	(Ref. 5.0)
___/___	Load NTDS SYSERR messages	(Ref. 7.1)
___/___	Update Release Number (NTDS and BJS)	(Ref. 7.2)

APPENDIX E
CCR LIST FOR NTDS RELEASE

CCR LIST FOR NTDS RELEASE

NTDS 1620's in Release 2.6.0

CCR NUMBER	TITLE
94001792	Multiple Course Selection Capability from IDP
94002741	IDP - Add Goals and Objectives
96000309	Current GPA Displays as 0.0
96000310	Modify IDP Course Change Edits
96000311	Modify SOFTWARE to Conform to SRS
96000312	Modify SOFTWARE to Conform to SRS
96000313	Offsite Verification Notices
96000317	Contractor Organization Data Not Populated in Training History

APPENDIX F
FILE SPECIFICATIONS

FILE SPECIFICATIONS

File Name	Loaded	Top- ISN	Max- ISN	Extents		PAD		% D	IND. ACISE	% used	
				NUA	D	A	D			A	D
26	NTDS-CRS-ENTRIES	95.06.05	3794	4675	112	1	3	3			
27	NTDS-WO-ENTRIES	95.06.05	1204	3339	111	1	3	3			
28	NTDS-PPMI	95.06.05	1491	3339	111	1	3	3			
119	NTDS-NASA-TI	95/01/18	1014	31395	111	1	3	3	NNISN	5	27
120	NTDS-CRS-SESS	92/06/02	9157	10019	111	2	10	10	NNISN	37	85
121	NTDS-CRS-ADMIN	91/04/16	532	3339	111	1	10	10	NNISN	22	10
122	NTDS-TABLES	91/04/04	4871	6011	111	1	10	10	NNISN	33	19
123	NTDS-TR	92/01/23	3027	3339	111	2	10	10	NNISN	57	90
124	NTDS-TRN-HIST	92/06/03	19155	300599	111	1	10	10	NNISN	2	18
125	NTDS-TEXT	92/06/03	613	3339	111	1	10	10	NNISN	2	18
126	NTDS-PER-MASTER	92/06/09	613	3339	111	1	10	10	NNISN	11	5
127	NTDS-DP-MASTER	92/05/13	1004	3339	111	1	10	10	NNISN	17	32
128	NTDS-REMINDER	92/03/11	1272	3339	111	1	10	10	NNISN	20	22
129	NTDS-CLSRM-SCHED	91/04/05	46	3339	111	1	10	10	NNISN	5	1
130	NTDS-AUDIT	92/01/13	4199	4675	212	1	10	10	NNISN	41	66
131	NTDS-SYSTABLES	94/06/22	14200	50099	111	1	3	3	NNISN	26	31
132	NTDS-NNASA-TI	95/01/18	42	1335	111	1	3	3	NNISN	3	1
133	NTDS-IDP-GEN	95/01/18	58	1335	111	1	3	3	NNISN	5	2
134	NTDS-IDP-CRS	95/01/18	348	1335	111	1	3	3	NNISN	3	15
135	NTDS-IDP-WOA	95/01/18	80	1335	111	1	3	3	NNISN	3	4
136	NTDS-IDP-PE	95/01/18	1	1335	111	1	3	3	NNISN	3	1
137	NTDS-IDP-PS	95/01/18	4	1335	111	1	3	3	NNISN	3	1
138	NTDS-IDP-CMNT	95/01/18	31	1335	111	1	3	3	NNISN	3	1
139	NTDS-CRS	95/01/18	0	1335	111	1	3	3	NNISN	1	0
140	NTDS-CTDS-HEADER	95/01/18	15	4675	111	1	3	3	NNISN	5	1

SPACE ALLOCATION INFORMATION

File Name		Blocks Allocated				Blocks Unused		
		NI	UI	AC	Data/Cyl	NI	UI	Data/Cyl
26	NTDS-CRS-ENTRIES	100	50	7	135/1	26	43	81/0
27	NTDS-WO-ENTRIES	100	50	5	135/1	27	80	106/0
28	NTDS-PPMI	100	50	5	135/1	28	16	84/0
119	NTDS-NASA-TI	100	10	47	270/2	97	8	196/1
120	NTDS-CRS-SESS	100	50	5	270/2	40	44	224/1
121	NTDS-CRS-ADMIN	100	50	5	270/2	66	42	228/1
122	NTDS-TABLES	1000	100	18	270/2	864	96	167/1
123	NTDS-TR	300	50	5	270/2	194	42	240/1
124	NTDS-TRN-HIST	100	50	5	270/2	50	32	230/1
125	NTDS-TEXT	100	50	5	270/2	88	45	249/1
126	NTDS-PER-MASTER	100	50	5	270/2	94	47	263/1
127	NTDS-DP-MASTER	100	50	5	270/2	88	45	249/1
128	NTDS-REMINDER	100	50	5	270/2	60	44	198/1
129	NTDS-CLSRM-SCHED	100	50	5	270/2	97	46	269/1
130	NTDS-AUDIT	100	50	5	270/2	41	45	215/1
131	NTDS-SYSTABLES	1710	50	75	1350/10	1267	34	934/6
132	NTDS-NNASA-TI	100	10	2	100/0	99	8	99/0
133	NTDS-IDP-GEN	100	10	2	100/0	98	7	98/0
134	NTDS-IDP-CRS	100	10	2	100/0	99	8	85/0
135	NTDS-IDP-WOA	100	10	2	100/0	99	8	96/0
136	NTDS-IDP-PE	100	10	2	100/0	99	8	99/0
137	NTDS-IDP-PS	100	10	2	100/0	99	8	99/0
138	NTDS-IDP-CMNT	100	10	2	100/0	99	8	99/0
139	NTDS-CRS	100	10	2	100/0	100	9	100/0
140	NTDS-CTDS-HEADER	100	10	7	100/0	98	7	99/0